

SECTION 10416 - DIRECTORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Non-illuminated directories.
- B. Related Sections include the following:
 - 1. Division 10 Section "Signs" for specialty signs.

1.3 SUBMITTALS

- A. Product Data: For each model indicated. Include details of construction relative to materials, dimensions of individual components, profiles, and finishes.
- B. Shop Drawings: For each type of directory required.
 - 1. Include dimensioned plans, elevations and details, large-scale sections of typical members, and other components. Show anchors, grounds, reinforcement and layout, and indicate finishes.
- C. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors and textures available.
- D. Samples for Verification: Products, showing color and texture, or finish selected. Where finishes involve normal color and texture variations, include



Sample sets showing the full range of variations expected. Prepare Samples from the same material to be used for the Work.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer who is an authorized representative of the building directory manufacturer for installation and maintenance of units required for this Project.
 - 1. The Installer shall be capable of providing replacement message strips within 10 working days of receipt of an order.
- B. Source Limitations: Obtain building directories through one source from a single manufacturer.
- C. Product Options: Drawings indicate size, profiles, and dimensional requirements of building directories and bulletin boards and are based on the specific model indicated. Other manufacturers' building directories with equal performance characteristics may be considered. Refer to Division 1 Section "Substitutions."
 - 1. Do not modify intended aesthetic effects except with approval and only to the extent needed to comply with performance requirements. Where modifications are proposed, submit comprehensive explanatory data for review.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify rough openings for directories by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.6 EXTRA MATERIALS

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- A. Deliver extra blank message strips to Owner. Furnish extra message strips that match message strips installed, are packaged with protective covering for storage, and are identified with labels describing contents.
1. Message-Strip Units: Furnish blank, full-size, message-strip units equal to 10 percent of amount installed for Owner's future use.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to:
1. Non-Illuminated Directories:
- a. Apco Graphics.
 - b. ASI Sign System, Inc.
 - c. Poblocki & Sons.
 - d. Ticket & Tablet Co. (The).

2.2 MATERIALS

- A. Aluminum Extrusions: Manufacturer's standard extruded-aluminum sections with not less than the strength and durability properties specified in **ASTM B 221 (ASTM B 221M)** for 6063-T5 alloy.
- B. Abrasion-Resistant-Coated Acrylic Sheet: ASTM D 4802; Category A-1 (cell-cast sheet); Finish 3 (abrasion-resistant coated); Type UVA (UV absorbing); **0.177-inch- (4.5-mm-)** thick, transparent, colorless monolithic sheet with a luminous transmittance of 91 percent.

2.3 NON-ILLUMINATED DIRECTORIES

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- A. Non-illuminated Directories: Provide a fully recessed, non-illuminated directory consisting of a cabinet with an operable transparent cover, and a retainer frame containing a header panel and a letter board or removable message strips. Graphics for message strips, header panels, and other designs shall be in the letter style, size, spacing, and arrangement indicated.
1. Cabinet Housing: Provide pylon and frame fabricated from aluminum extrusions of the profile indicated, mitered and welded with an aluminum-sheet rear cover panel. Provide structural reinforcement to prevent racking and misalignment.
 2. Building Map: 2-ply, multi-color, map delineated to identify departments as required.
 3. Engraved-Type Message Strips: 2-ply, 2-color, laminated, acrylic-sheet engraving strips of size indicated.
 - a. Message Content: Provide message strips with wording and other designations that conform to list provided. Include blank strips as needed to fill out directory spaces.
 - b. Message-Strip Color: As selected.
 - c. Letter Size: 3/8 inch (10 mm).
 - d. Letter Style: Helvetica Regular.
 - e. Letter Color: As selected.
 - f. Letter Case: Capitals and lowercase, as selected.

2.4 ACCESSORIES

- A. Fasteners: Provide screws, bolts, and other exposed fastening devices of the same material as the items being fastened. Fasteners for applications on the exterior and exposed to the weather shall be hot-dip galvanized, stainless steel, or aluminum. Provide types, gages, and lengths to suit installation conditions. Use theft-proof fasteners where exposed to view.
- B. Hardware: Provide building directories and bulletin boards with the following hardware:
1. Hinges: Concealed pivot hinges.

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2. Locks: Furnish each cover with manufacturer's standard lock; key locks alike. Furnish 2 keys per lock.

2.5 FABRICATION

- A. General: Fabricate directories requirements indicated, including dimensions, design, and thickness and finish of materials. Use metals and shapes of thickness, with reinforcing if needed, to produce flatness, free of oil canning, and to impart strength for size, design, and application indicated.
 1. Fabricate perimeter cabinet and cover frames with reinforced corners, mitered to a hairline fit, with no exposed fasteners.
 2. Hardware for Covers: Equip covers with hardware of type indicated.

2.6 FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
- B. Colors: Where message strips, header panels, or other items, other than frames or glazing materials, require color selection to distinguish letters or graphic images from the background or for other purposes, provide colors as selected from manufacturer's full range of colors.
- C. Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.
- D. Aluminum Finishes: Finish designations prefixed by "AA" conform to the system established by the Aluminum Association for designating aluminum finishes.
 1. Baked-Enamel Finish: AA-M4xC12C42R1x (Mechanical Finish: Manufacturer's standard, other non-directional textured; Chemical Finish: Chemical conversion coating, acid chromate-fluoride-phosphate pretreatment; Organic Coating: as specified below). Apply baked enamel in

compliance with paint manufacturer's specifications for cleaning, conversion coating, and painting.

- a. Organic Coating: Thermosetting-modified acrylic enamel primer/topcoat system complying with AAMA 603.8 except with a minimum dry film thickness of 1.5 mils (0.04 mm), medium gloss.
2. Color: As selected from the manufacturer's standard colors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine wall surfaces, with the Installer present, for compliance with requirements and other conditions affecting installation of building directories and bulletin boards.
 1. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install units plumb and level, in locations and with mountings shown. Securely attach to supporting structure with concealed fasteners, according to manufacturer's written installation instructions.

3.3 CLEANING AND PROTECTING

- A. At completion of installation, clean surfaces according to manufacturer's written instructions.



- B. Protect installed directories and bulletin boards from damage until acceptance by Owner at the time of Substantial Completion.

END OF SECTION 10416

